

PC 20701C.ST25.txt
SEQUENCE LISTING

<110> Dasseux, Jean Louis
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Buttner, Klaus
Cornut, Isabelle
Metz, Gunther

<120> Apolipoprotein A-I agonists and their use to treat dyslipidemic disorders

<130> 9169-032-999

<140> 10/801,897

<141> 2004-03-15

<150> US 09/865,989

<151> 2001-05-25

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<151> 1999-12-17

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<151> 1997-09-29

<160> 258

<170> PatentIn version 3.3

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<223> xaa = Naphthylalanine

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Leu Lys Gln Lys Leu Lys
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Gly Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala
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Leu Lys Gln Lys Leu Lys Lys
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Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Trp
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Leu Lys Gln Lys Leu Lys
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Pro Val Leu Asp Leu Phe Lys Glu Leu Leu Gln Glu Leu Leu Glu Ala
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Leu Lys Gln Lys Leu Lys
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Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala
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Leu Xaa Gln Xaa Leu Xaa
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Leu Lys Gln Lys Leu Lys
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Leu Lys Gln Lys Leu Lys
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Leu Lys Gln Lys Leu Lys
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<223> None

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Leu Lys Gln Lys Leu Lys
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Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Gly
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Pro Leu Leu Glu Leu Phe Lys Glu Leu Leu Gln Glu Leu Leu Glu Ala
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Leu Lys Gln Lys Leu Lys
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Leu Gln Lys Lys Leu Lys
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Leu Lys Gln Lys Leu Lys
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Leu Lys Gln Lys Leu Lys
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<220>

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Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Trp Glu Ala
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Leu Lys Gln Lys Leu Lys
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Ala Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala
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<223> N-Terminal dansylated peptide

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Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala
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Leu Lys Gln Lys Leu Lys
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Leu Lys Gln Lys Leu Lys
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Pro Val Leu Asp Leu Phe Arg Glu Lys Leu Asn Glu Leu Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
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Leu Lys Gln Lys Leu Lys
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Pro Val Leu Asp Trp Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala
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Leu Lys Gln Lys Leu Lys
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<210> 36

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Pro Leu Leu Glu Leu Leu Lys Glu Leu Leu Gln Glu Leu Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
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Pro Val Leu Asp Leu Phe Arg Glu Trp Leu Asn Glu Leu Leu Glu Ala
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Leu Lys Gln Lys Leu Lys
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Trp Lys Gln Lys Leu Lys
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<400> 39

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Glu Leu Leu Lys Ala
1 5 10 15

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Leu Lys Lys Lys Leu Lys
20

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Pro Val Leu Asp Leu Phe Asn Glu Leu Leu Arg Glu Leu Leu Glu Ala
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Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Trp Glu Ala
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Leu Lys Gln Lys Leu Lys
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Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Trp Glu Xaa Leu Glu Ala
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Leu Lys Gln Lys Leu Lys
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<223> All genetically encoded amino acids are in the D-configuration

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Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala
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Leu Lys Gln Lys Leu Lys
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Leu Lys Gln Lys Leu Lys
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Pro Val Leu Asp Leu Phe Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
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<400> 47

Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Gly Leu Glu Ala Leu
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Lys Gln Lys Leu Lys
20

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Leu Lys Gln Lys Leu Lys
20

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<220>
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<400> 49

Pro Val Leu Asp Leu Phe Arg Asn Leu Leu Glu Lys Leu Leu Glu Ala
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Leu Glu Gln Lys Leu Lys
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Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Trp Glu Xaa Leu Glu Ala
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Leu Lys Gln Lys Leu Lys
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Leu Lys Gln Lys Leu Lys
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Leu Lys Gln Lys Leu Lys
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Val Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
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Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Trp Leu Glu Ala
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Leu Lys Gln Lys Leu Lys
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Pro Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala Leu Lys Gln
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Lys Leu Lys

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Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala
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Leu Lys Gln Lys Lys Lys
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<400> 59

Leu Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala
1 5 10 15

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Leu Lys Gln Lys Leu Lys
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Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala
1 5 10 15

Leu Lys Gln

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1 5 10 15

Leu Lys Gln Lys Leu Lys
20

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Leu Lys Gln Lys Leu Lys
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Pro Trp Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala
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Leu Lys Gln Lys Leu Lys
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<223> None

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Lys Gln Lys Leu Lys
20

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<220>

<223> None

<400> 66

Pro Val Leu Asp Leu Phe Arg Asn Leu Leu Glu Glu Leu Leu Glu Ala
1 5 10 15

Leu Gln Lys Lys Leu Lys
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<210> 67

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<223> None

<400> 67

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1 5 10 15

Lys Gln Lys Leu Lys
20

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Leu Lys Gln Lys Leu Lys
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Leu Lys Gln Lys Leu Lys
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Leu Lys Gln Lys Leu Lys
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Leu Lys Gln Lys Leu Lys
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<222> (13)..(13)
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Leu Lys Gln Lys Leu Lys
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<222> (13)..(13)
<223> Xaa = Aib

<400> 73

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Pro Val Leu Asp Glu Phe Trp Glu Lys Leu Asn Glu Xaa Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
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<210> 74
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<400> 74

Pro Val Leu Asp Lys Phe Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
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<213> Artificial

<220>
<223> None

<400> 75

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Glu Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
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<210> 76
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<222> (13)..(13)

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<223> Xaa = Aib

<400> 76

Pro Val Leu Asp Glu Phe Arg Glu Leu Leu Phe Glu Xaa Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
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Leu Lys Gln Lys Leu Lys
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Pro Val Leu Asp Glu Phe Arg Asp Lys Leu Asn Glu Xaa Leu Glu Ala
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Leu Lys Gln Lys Leu Lys
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<210> 79

<211> 22

<212> PRT

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<220>

<223> None

<400> 79

Pro Val Leu Asp Glu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
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<223> None

<400> 80

Pro Val Leu Asp Leu Phe Glu Arg Leu Leu Asn Glu Leu Leu Glu Ala
1 5 10 15

Leu Gln Lys Lys Leu Lys
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<210> 81

<211> 22

<212> PRT

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<223> None

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Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Trp Xaa Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
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<210> 82

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<223> None

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<223> Xaa = Aib

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Gln Lys Leu Lys
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<210> 83

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Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala
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Leu Trp Gln Lys Leu Lys
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<210> 84

<211> 22

<212> PRT

<213> Artificial

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<223> None

<400> 84

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Leu Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
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<210> 85

<211> 21

<212> PRT

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<213> Artificial

<220>

<223> None

<400> 85

Pro Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala Leu
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Lys Gln Lys Leu Lys
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<210> 86

<211> 22

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<213> Artificial

<220>

<223> None

<400> 86

Pro Val Leu Glu Leu Phe Glu Arg Leu Leu Asp Glu Leu Leu Asn Ala
1 5 10 15

Leu Gln Lys Lys Leu Lys
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<210> 87

<211> 22

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<223> All amino acids are in the D-configuration

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Leu Lys Gln Lys Leu Lys
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<210> 88

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<223> Xaa = Aib

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Leu Lys Gln Lys Leu Lys
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<222> (13)..(13)

<223> Xaa = Aib

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Leu Lys Gln Lys Leu Lys
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<223> Xaa = Aib

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Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala Leu Lys Gln
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Lys Leu Lys

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<210> 91
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1 5 10 15

Leu Lys Gln Lys Leu Lys
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Leu Lys Gln Lys Leu Lys
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<400> 93

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Leu Lys Ala
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Leu Lys Gln Lys Leu Lys
20

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<211> 22
<212> PRT
<213> Artificial

<220>
<223> None

<400> 94

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Ala Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
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Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Leu Xaa Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 96
<211> 22
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<220>

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<222> (1)..(22)

<223> All genetically encoded amino acids are in the D-configuration

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<223> Xaa = Aib

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Pro val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Xaa Leu Glu Ala
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Leu Lys Gln Lys Leu Lys
20

<210> 97

<211> 15

<212> PRT

<213> Artificial

<220>

<223> None

<400> 97

Pro val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu
1 5 10 15

<210> 98

<211> 22

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<213> Artificial

<220>

<223> None

<400> 98

Pro val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Glu Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 99

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<213> Artificial

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<223> None

<400> 99

Lys Leu Lys Gln Lys Leu Ala Glu Leu Leu Glu Asn Leu Leu Glu Arg
1 5 10 15

Phe Leu Asp Leu Val Pro
20

<210> 100

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<223> None

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<222> (1)..(22)

<223> All amino acids are in the D-configuration

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Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala
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Leu Lys Gln Lys Leu Lys
20

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Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Trp Xaa Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 102

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<212> PRT

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<223> Xaa = Aib

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Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Leu Xaa Leu Glu Ala
1 5 10 15

Leu Lys Glu Lys Leu Lys
20

<210> 103

<211> 22

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<213> Artificial

<220>

<223> None

<400> 103

Pro Val Leu Asp Glu Phe Arg Glu Leu Leu Asn Glu Glu Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 104

<211> 15

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<213> Artificial

<220>

<223> None

<400> 104

Pro Leu Leu Asn Glu Leu Leu Glu Ala Leu Lys Gln Lys Leu Lys
1 5 10 15

<210> 105

<211> 22

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<220>

<223> None

<400> 105

PG-20701C-S125-Ext
Pro Ala Ala Asp Ala Phe Arg Glu Ala Ala Asn Glu Ala Ala Glu Ala
1 5 10 15

Ala Lys Gln Lys Ala Lys
20

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<223> None

<400> 106

Pro Val Leu Asp Leu Phe Arg Glu Lys Leu Asn Glu Glu Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 107
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<223> All amino acids are in the D-configuration

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1 5 10 15

Phe Leu Asp Leu Val Pro
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<223> Xaa = Aib

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<400> 108

Pro Val Leu Asp Leu Phe Arg Trp Leu Leu Asn Glu Xaa Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 109
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<400> 109

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Arg Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
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<400> 110

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Xaa Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 111
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<213> Artificial

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<223> None

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<222> (13)..(13)

<223> Xaa - Aib

<400> 111

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Trp Glu Xaa Trp Glu Ala
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Leu Lys Gln Lys Leu Lys
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<210> 112

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<223> Xaa - Aib

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Leu Lys Gln Lys Leu Lys
20

<210> 113

<211> 22

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<220>

<223> None

<400> 113

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Pro Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
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<210> 114

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<223> Xaa - Aib

<400> 114

Pro val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Met Glu Ala
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Leu Lys Gln Lys Leu Lys
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<400> 115

Pro Lys Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

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<223> Xaa - Aib

<400> 116

Pro His Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala
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1 5 PC 20701C.ST25.txt 15
10

Leu Lys Gln Lys Leu Lys
20

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<223> Xaa - Aib

<400> 117

Pro Glu Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

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<223> Xaa - Aib

<400> 118

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala
1 5 10 15

Leu Glu Gln Lys Leu Lys
20

<210> 119
<211> 22
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<400> 119

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Glu Leu Glu Ala
1 5 10 15

Xaa Lys Gln Lys Leu Lys
20

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<400> 120

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Glu Leu Glu Xaa
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

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<211> 22
<212> PRT
<213> Artificial

<220>
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<400> 121

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Glu Leu Glu Ala
1 5 10 15

Leu Trp Gln Lys Leu Lys
20

<210> 122
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<220>

<223> None

<400> 122

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Glu Leu Glu Trp
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 123

<211> 22

<212> PRT

<213> Artificial

<220>

<223> None

<400> 123

Gln Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
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<210> 124

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<223> Xaa = Orn

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<222> (22)..(22)

<223> Xaa = Orn

<400> 124

Pro Val Leu Asp Leu Phe Xaa Glu Leu Leu Asn Glu Leu Leu Glu Ala
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1

5

15

Leu Xaa Gln Xaa Leu Xaa
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<400> 125

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1 5 10 15Leu Lys Gln Lys Leu Lys
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Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Gly Glu Ala
1 5 10 15Leu Lys Gln Lys Leu Lys
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<400> 127

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Leu
1 5 10 15Leu Lys Gln Lys Leu Lys
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<220>
<223> None

<400> 128

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Phe
1 5 10 15

Leu Lys Gln Lys Leu Lys
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<210> 129
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<213> Artificial

<220>
<223> None

<400> 129

Pro Val Leu Glu Leu Phe Asn Asp Leu Leu Arg Glu Leu Leu Glu Ala
1 5 10 15

Leu Gln Lys Lys Leu Lys
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<210> 130
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<220>
<223> None

<400> 130

Pro Val Leu Glu Leu Phe Asn Asp Leu Leu Arg Glu Leu Leu Glu Ala
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Leu Lys Gln Lys Leu Lys
20

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<220>
<223> None

<400> 131

Pro Val Leu Glu Leu Phe Lys Glu Leu Leu Asn Glu Leu Leu Asp Ala

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1 5 PC 20701C.ST25.txt 15
10

Leu Arg Gln Lys Leu Lys
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<210> 132
<211> 22
<212> PRT
<213> Artificial

<220>
<223> None

<400> 132

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Asn Leu Leu Glu Ala
1 5 10 15

Leu Gln Lys Lys Leu Lys
20

<210> 133
<211> 22
<212> PRT
<213> Artificial

<220>
<223> None

<400> 133

Pro Val Leu Glu Leu Phe Glu Arg Leu Leu Glu Asp Leu Leu Gln Ala
1 5 10 15

Leu Asn Lys Lys Leu Lys
20

<210> 134
<211> 22
<212> PRT
<213> Artificial

<220>
<223> None

<400> 134

Pro Val Leu Glu Leu Phe Glu Arg Leu Leu Glu Asp Leu Leu Lys Ala
1 5 10 15

Leu Asn Gln Lys Leu Lys
20

<210> 135
<211> 22

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<220>
<223> None

<400> 135

Asp Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 136
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<212> PRT
<213> Artificial

<220>
<223> None

<400> 136

Pro Ala Leu Glu Leu Phe Lys Asp Leu Leu Gln Glu Leu Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
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<223> Xaa - Naphthylalanine

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Xaa Lys Gln Lys Leu Lys
20

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<223> None

<400> 138

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Gly Leu Glu Trp
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

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<211> 22

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<213> Artificial

<220>

<223> None

<400> 139

Pro Val Leu Asp Leu Phe Arg Glu Leu Trp Asn Glu Gly Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
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<223> xaa = Orn

<400> 140

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Gly Leu Glu Ala
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Leu Xaa Gln Xaa Leu Xaa
20

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<210> 141
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<212> PRT
<213> Artificial

<220>
<223> None

<400> 141

Pro Val Leu Asp Phe Phe Arg Glu Leu Leu Asn Glu Gly Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 142
<211> 22
<212> PRT
<213> Artificial

<220>
<223> None

<400> 142

Pro Val Leu Glu Leu Phe Arg Glu Leu Leu Asn Glu Gly Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

<210> 143
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<222> (1)..(22)
<223> N-terminal acetylated and C-terminal amidated peptide

<400> 143

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Gly Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
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<210> 144

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<211> 22
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<400> 144

Xaa Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Leu Asp Ala
1 5 10 15

Leu Gln Lys Lys Leu Lys
20

<210> 145
<211> 22
<212> PRT
<213> Artificial

<220>
<223> None

<400> 145

Gly Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Leu Asp Ala
1 5 10 15

Leu Gln Lys Lys Leu Lys
20

<210> 146
<211> 22
<212> PRT
<213> Artificial

<220>
<223> None

<400> 146

Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Leu Asp Ala
1 5 10 15

Leu Gln Lys Lys Leu Lys
20

<210> 147
<211> 22
<212> PRT
<213> Artificial

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<220>

<223> None

<400> 147

Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Phe Asp Ala
1 5 10 15

Leu Gln Lys Lys Leu Lys
20

<210> 148

<211> 22

<212> PRT

<213> Artificial

<220>

<223> None

<400> 148

Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Gly Asp Ala
1 5 10 15

Leu Gln Lys Lys Leu Lys
20

<210> 149

<211> 22

<212> PRT

<213> Artificial

<220>

<223> None

<400> 149

Pro Val Leu Glu Leu Phe Glu Asn Leu Trp Glu Arg Leu Leu Asp Ala
1 5 10 15

Leu Gln Lys Lys Leu Lys
20

<210> 150

<211> 22

<212> PRT

<213> Artificial

<220>

<223> None

<400> 150

Pro Leu Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Leu Asp Ala
1 5 10 15

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Leu Gln Lys Lys Leu Lys
20<210> 151
<211> 22
<212> PRT
<213> Artificial<220>
<223> None

<400> 151

Pro Val Leu Glu Leu Phe Glu Asn Leu Gly Glu Arg Leu Leu Asp Ala
1 5 10 15Leu Gln Lys Lys Leu Lys
20<210> 152
<211> 22
<212> PRT
<213> Artificial<220>
<223> None

<400> 152

Pro Val Phe Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Leu Asp Ala
1 5 10 15Leu Gln Lys Lys Leu Lys
20<210> 153
<211> 22
<212> PRT
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<223> None

<400> 153

Ala Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Leu Asp Ala
1 5 10 15Leu Gln Lys Lys Leu Lys
20<210> 154
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<212> PRT
<213> Artificial

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<220>

<223> None

<400> 154

Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Gly Leu Asp Ala
1 5 10 15

Leu Gln Lys Lys Leu Lys
20

<210> 155

<211> 22

<212> PRT

<213> Artificial

<220>

<223> None

<400> 155

Pro Val Leu Glu Leu Phe Leu Asn Leu Trp Glu Arg Leu Leu Asp Ala
1 5 10 15

Leu Gln Lys Lys Leu Lys
20

<210> 156

<211> 22

<212> PRT

<213> Artificial

<220>

<223> None

<400> 156

Pro Val Leu Glu Leu Phe Leu Asn Leu Leu Glu Arg Leu Leu Asp Ala
1 5 10 15

Leu Gln Lys Lys Leu Lys
20

<210> 157

<211> 22

<212> PRT

<213> Artificial

<220>

<223> None

<400> 157

Pro Val Leu Glu Phe Phe Glu Asn Leu Leu Glu Arg Leu Leu Asp Ala
1 5 10 15

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Leu Gln Lys Lys Leu Lys
20

<210> 158
<211> 22
<212> PRT
<213> Artificial

<220>
<223> None

<400> 158

Pro Val Leu Glu Leu Phe Leu Asn Leu Leu Glu Arg Leu Leu Asp Trp
1 5 10 15

Leu Gln Lys Lys Leu Lys
20

<210> 159
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<220>
<223> None

<400> 159

Pro Val Leu Asp Leu Phe Glu Asn Leu Leu Glu Arg Leu Leu Asp Ala
1 5 10 15

Leu Gln Lys Lys Leu Lys
20

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<400> 160

Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Leu Asp Trp
1 5 10 15

Leu Gln Lys Lys Leu Lys
20

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PC 20701C.ST25.txt

<220>

<223> None

<400> 161

Pro val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Leu Glu Ala
1 5 10 15

Leu Gln Lys Lys Leu Lys
20

<210> 162

<211> 22

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<220>

<223> None

<400> 162

Pro val Leu Glu Leu Phe Glu Asn Trp Leu Glu Arg Leu Leu Asp Ala
1 5 10 15

Leu Gln Lys Lys Leu Lys
20

<210> 163

<211> 22

<212> PRT

<213> Artificial

<220>

<223> None

<400> 163

Pro val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Trp Asp Ala
1 5 10 15

Leu Gln Lys Lys Leu Lys
20

<210> 164

<211> 22

<212> PRT

<213> Artificial

<220>

<223> None

<400> 164

Pro val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Leu Asp Ala
1 5 10 15

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Trp Gln Lys Lys Leu Lys
20<210> 165
<211> 22
<212> PRT
<213> Artificial<220>
<223> None

<400> 165

Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Leu Asp Leu
1 5 10 15Leu Gln Lys Lys Leu Lys
20<210> 166
<211> 22
<212> PRT
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<223> None

<400> 166

Pro Val Leu Glu Leu Phe Leu Asn Leu Leu Glu Lys Leu Leu Asp Ala
1 5 10 15Leu Gln Lys Lys Leu Lys
20<210> 167
<211> 22
<212> PRT
<213> Artificial<220>
<223> None

<400> 167

Pro Val Leu Glu Leu Phe Glu Asn Gly Leu Glu Arg Leu Leu Asp Ala
1 5 10 15Leu Gln Lys Lys Leu Lys
20<210> 168
<211> 22
<212> PRT
<213> Artificial

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<220>

<223> None

<400> 168

Pro Val Leu Glu Leu Phe Glu Gln Leu Leu Glu Lys Leu Leu Asp Ala
1 5 10 15

Leu Gln Lys Lys Leu Lys
20

<210> 169

<211> 22

<212> PRT

<213> Artificial

<220>

<223> None

<400> 169

Pro Val Leu Glu Leu Phe Glu Asn Gly Leu Glu Arg Leu Leu Asp Ala
1 5 10 15

Leu Gln Lys Lys Leu Lys
20

<210> 170

<211> 22

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<223> Xaa = Orn

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<222> (20)..(20)

<223> Xaa = Orn

<220>

<221> MISC_FEATURE

<222> (22)..(22)

<223> Xaa = Orn

<400> 170

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Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Xaa Leu Leu Asp Ala
1 5 10 15

Leu Gln Xaa Xaa Leu Xaa
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<210> 171
<211> 22
<212> PRT
<213> Artificial

<220>
<223> None

<400> 171

Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Lys Leu Leu Asp Leu
1 5 10 15

Leu Gln Lys Lys Leu Lys
20

<210> 172
<211> 22
<212> PRT
<213> Artificial

<220>
<223> None

<400> 172

Pro Val Leu Glu Leu Phe Leu Asn Leu Leu Glu Arg Leu Gly Asp Ala
1 5 10 15

Leu Gln Lys Lys Leu Lys
20

<210> 173
<211> 22
<212> PRT
<213> Artificial

<220>
<223> None

<400> 173

Pro Val Leu Asp Leu Phe Asp Asn Leu Leu Asp Arg Leu Leu Asp Leu
1 5 10 15

Leu Asn Lys Lys Leu Lys
20

<210> 174

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<223> None

<220>
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<223> All amino acids are in the D-configuration

<400> 174

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1 5 10 15

Leu Gln Lys Lys Leu Lys
20

<210> 175
<211> 22
<212> PRT
<213> Artificial

<220>
<223> None

<400> 175

Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Leu Glu Leu
1 5 10 15

Leu Asn Lys Lys Leu Lys
20

<210> 176
<211> 22
<212> PRT
<213> Artificial

<220>
<223> None

<400> 176

Pro Val Leu Glu Leu Trp Glu Asn Leu Leu Glu Arg Leu Leu Asp Ala
1 5 10 15

Leu Gln Lys Lys Leu Lys
20

<210> 177
<211> 22
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<220>

<223> None

<400> 177

Gly Val Leu Glu Leu Phe Leu Asn Leu Leu Glu Arg Leu Leu Asp Ala
1 5 10 15

Leu Gln Lys Lys Leu Lys
20

<210> 178

<211> 22

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<220>

<223> None

<400> 178

Pro Val Leu Glu Leu Phe Asp Asn Leu Leu Glu Lys Leu Leu Glu Ala
1 5 10 15

Leu Gln Lys Lys Leu Arg
20

<210> 179

<211> 22

<212> PRT

<213> Artificial

<220>

<223> None

<400> 179

Pro Val Leu Glu Leu Phe Asp Asn Leu Leu Glu Arg Leu Leu Asp Ala
1 5 10 15

Leu Gln Lys Lys Leu Lys
20

<210> 180

<211> 22

<212> PRT

<213> Artificial

<220>

<223> None

<400> 180

Pro Val Leu Glu Leu Phe Asp Asn Leu Leu Asp Lys Leu Leu Asp Ala
1 5 10 15

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Leu Gln Lys Lys Leu Arg
20<210> 181
<211> 22
<212> PRT
<213> Artificial<220>
<223> None

<400> 181

Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Trp Leu Asp Ala
1 5 10 15Leu Gln Lys Lys Leu Lys
20<210> 182
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<212> PRT
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<400> 182

Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Lys Leu Leu Glu Ala
1 5 10 15Leu Gln Lys Lys Leu Lys
20<210> 183
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<223> None

<400> 183

Pro Leu Leu Glu Leu Phe Glu Asn Leu Leu Glu Lys Leu Leu Asp Ala
1 5 10 15Leu Gln Lys Lys Leu Lys
20<210> 184
<211> 22
<212> PRT
<213> Artificial

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<220>
<223> None

<400> 184

Pro Val Leu Glu Leu Phe Leu Asn Leu Leu Glu Arg Leu Leu Asp Ala
1 5 10 15Trp Gln Lys Lys Leu Lys
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<400> 185

Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Leu Asp Ala
1 5 10 15Leu Gln Xaa Xaa Leu Xaa
20<210> 186
<211> 22
<212> PRT
<213> Artificial<220>
<223> None

<400> 186

Pro Val Leu Glu Leu Phe Glu Gln Leu Leu Glu Arg Leu Leu Asp Ala
1 5 10 15

Leu Gln Lys Lys Leu Lys

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20

<210> 187
<211> 22
<212> PRT
<213> Artificial

<220>
<223> None

<400> 187

Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Leu Asp Ala
1 5 10 15

Leu Asn Lys Lys Leu Lys
20

<210> 188
<211> 22
<212> PRT
<213> Artificial

<220>
<223> None

<400> 188

Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Asp Arg Leu Leu Asp Ala
1 5 10 15

Leu Gln Lys Lys Leu Lys
20

<210> 189
<211> 22
<212> PRT
<213> Artificial

<220>
<223> None

<400> 189

Asp val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Leu Asp Ala
1 5 10 15

Leu Gln Lys Lys Leu Lys
20

<210> 190
<211> 22
<212> PRT
<213> Artificial

<220>

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<223> None

<400> 190

Pro Val Leu Glu Phe Trp Asp Asn Leu Leu Asp Lys Leu Leu Asp Ala
1 5 10 15

Leu Gln Lys Lys Leu Arg
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<210> 191

<211> 18

<212> PRT

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<223> None

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<221> MISC_FEATURE

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<400> 191

Pro Val Leu Asp Leu Leu Arg Glu Leu Leu Glu Glu Leu Lys Gln Lys
1 5 10 15

Leu Lys

<210> 192

<211> 18

<212> PRT

<213> Artificial

<220>

<223> None

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<222> (1)..(18)

<223> N-terminal acetylated and C-terminal amidated

<400> 192

Pro Val Leu Asp Leu Phe Lys Glu Leu Leu Glu Glu Leu Lys Gln Lys
1 5 10 15

Leu Lys

<210> 193

<211> 18

<212> PRT

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<223> None

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<223> N-terminal acetylated and C-terminal amidated

<400> 193

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Glu Leu Lys Gln Lys
1 5 10 15

Leu Lys

<210> 194

<211> 18

<212> PRT

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<220>

<223> None

<220>

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<223> N-terminal acetylated and C-terminal amidated

<400> 194

Pro Val Leu Glu Leu Phe Arg Glu Leu Leu Glu Glu Leu Lys Gln Lys
1 5 10 15

Leu Lys

<210> 195

<211> 18

<212> PRT

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<222> (1)..(18)

<223> N-terminal acetylated and C-terminal amidated

<400> 195

Pro Val Leu Glu Leu Phe Lys Glu Leu Leu Glu Glu Leu Lys Gln Lys
1 5 10 15

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Leu Lys

<210> 196
<211> 18
<212> PRT
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<220>
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<400> 196

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Glu Leu Lys Asn Lys
1 5 10 15

Leu Lys

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<223> N-terminal acetylated and C-terminal amidated

<400> 197

Pro Leu Leu Asp Leu Phe Arg Glu Leu Leu Glu Glu Leu Lys Gln Lys
1 5 10 15

Leu Lys

<210> 198
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<400> 198

Gly Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Glu Leu Lys Gln Lys
1 5 10 15

Leu Lys

<210> 199
<211> 18
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1 5 10 15

Leu Lys

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Asn Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Glu Leu Lys Gln Lys
1 5 10 15

Leu Lys

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<400> 201

Pro Leu Leu Asp Leu Phe Lys Glu Leu Leu Glu Glu Leu Lys Gln Lys
1 5 10 15

Leu Lys

<210> 202
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<400> 202

Pro Ala Leu Glu Leu Phe Lys Asp Leu Leu Glu Glu Leu Arg Gln Lys
1 5 10 15

Leu Arg

<210> 203
<211> 18
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<400> 203

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Ala Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Glu Leu Lys Gln Lys
1 5 10 15

Leu Lys

<210> 204
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<400> 204

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1 5 10 15

Leu Lys

<210> 205
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<400> 205

Pro Val Leu Asp Leu Phe Arg Glu Trp Leu Glu Glu Leu Lys Gln Lys
1 5 10 15

Leu Lys

<210> 206
<211> 18
<212> PRT
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<220>

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<223> None

<220>

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<222> (1)..(18)

<223> N-terminal acetylated and C-terminal amidated

<400> 206

Pro Leu Leu Glu Leu Leu Lys Glu Leu Leu Glu Glu Leu Lys Gln Lys
1 5 10 15

Leu Lys

<210> 207

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<222> (1)..(18)

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Leu Lys

<210> 208

<211> 18

<212> PRT

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<220>

<223> None

<220>

<221> MISC_FEATURE

<222> (1)..(18)

<223> N-terminal acetylated and C-terminal amidated

<400> 208

Pro Ala Leu Glu Leu Phe Lys Asp Leu Leu Glu Glu Leu Arg Gln Arg
1 5 10 15

Leu Lys

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<210> 209
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<220>
<223> None

<400> 209

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Gln Lys
1 5 10 15

Leu Lys

<210> 210
<211> 18
<212> PRT
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<220>
<223> None

<400> 210

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Glu Leu Lys Gln Lys
1 5 10 15

Leu Lys

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<222> (18)..(18)
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<400> 211

Pro val Leu Asp Leu Phe Arg Glu Leu Leu Glu Glu Leu Xaa Gln Xaa
1 5 10 15

Leu Xaa

<210> 212
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<222> (16)..(16)
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<400> 212

Pro val Leu Asp Leu Phe Xaa Glu Leu Leu Glu Glu Leu Xaa Gln Xaa
1 5 10 15

Leu Lys

<210> 213
<211> 18
<212> PRT
<213> Artificial

<220>
<223> None

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<220>
<221> MISC_FEATURE
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<223> N-terminal acetylated and C-terminal amidated

<400> 213

Pro Ala Leu Glu Leu Phe Lys Asp Leu Leu Glu Glu Phe Arg Gln Arg
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Leu Lys

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<220>
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Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Glu Leu Lys Gln Lys
1 5 10 15

Leu Lys

<210> 215
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<220>
<223> None

<220>
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<223> N-terminal acetylated and C-terminal amidated

<400> 215

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Glu Trp Lys Gln Lys
1 5 10 15

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Leu Lys

<210> 216
<211> 18
<212> PRT
<213> Artificial

<220>
<223> None

<400> 216

Pro Val Leu Glu Leu Phe Lys Glu Leu Leu Glu Glu Leu Lys Gln Lys
1 5 10 15

Leu Lys

<210> 217
<211> 18
<212> PRT
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Leu Lys

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Leu Lys

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Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Trp Gln Lys
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Leu Lys

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Leu Lys

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Leu Lys

<210> 222

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<400> 222

Pro Val Leu Asp Ala Phe Arg Glu Leu Leu Glu Ala Leu Leu Gln Leu
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Lys Lys

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Lys Lys

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Leu Lys

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<400> 225

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Lys Lys

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<400> 226

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Lys Lys

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Leu Lys

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Leu Lys

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Leu Lys

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Pro Val Leu Glu Leu Phe Glu Arg Leu Leu Glu Asp Leu Gln Lys Lys
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Leu Lys

<210> 231
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<400> 231

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Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Lys Leu Glu Gln Lys
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Leu Lys

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Leu Lys

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<400> 237

Leu Asp Asp Leu Leu Gln Lys Trp Ala Glu Ala Phe Asn Gln Leu Leu
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Lys Lys

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Leu Phe

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Leu Phe

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Ala Phe

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<400> 241

Asp Trp Phe Lys Ala Phe Tyr Asp Lys Val Phe Glu Lys Phe Lys Glu
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Phe Phe

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<400> 242

Gly Ile Lys Lys Phe Leu Gly Ser Ile Trp Lys Phe Ile Lys Ala Phe
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Val Gly

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<220>
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<400> 243

Asp Trp Phe Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys Phe Lys Glu
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Ala Phe

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<211> 18
<212> PRT
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<220>
<223> None

<400> 244

Asp Trp Leu Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys Leu Lys Glu
1 5 10 15

Ala Phe

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<220>
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<400> 245

Asp Trp Leu Lys Ala Phe Tyr Asp Lys Val Phe Glu Lys Phe Lys Glu
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Phe Phe

<210> 246
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<220>
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<400> 246

Glu Trp Leu Glu Ala Phe Tyr Lys Lys Val Leu Glu Lys Leu Lys Glu
1 5 10 15

Leu Phe

<210> 247
<211> 18

PC 20701C.ST25.txt

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<400> 247

Asp Trp Phe Lys Ala Phe Tyr Asp Lys Phe Phe Glu Lys Phe Lys Glu
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Phe Phe

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Leu Phe

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Leu Phe

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Leu Phe

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Leu Phe

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Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Gln Lys Leu Lys
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